140

SF
77
A7

LABORATORY ANIMAL CARE

Volume 16, 1966

Official Publication of the

Animal Care Panel, Inc.

O. A. Soave, *Editor*

Published by The Williams & Wilkins Company
Baltimore, Maryland 21202

Copyright © 1966, Animal Care Panel, Inc.

CONTENTS OF VOLUME 16

No. 1, February

The Need for a Large Standard Laboratory Dog. *William S. Fletcher, Allan L. Rogers, and LeRoy F. Erickson* 1

Infertility of Guinea Pigs on Sawdust Bedding. *Stephen J. Plank and Ray Irwin* 9

Care and Raising of Newborn Baboons. *T. E. Vice, H. A. Britton, I. A. Ratner, and S. S. Kalter* 12

The Trematodes of Laboratory Primates. *G. E. Cosgrove* 23

A Method for Intravenous Injection and Collection of Blood from Rats and Mice without Restraint and Anesthesia. *Toshima Nobunaga, Katsumi Nakamura and Tomonori Imamichi* 40

The Hematogram of the Squirrel Monkey (*Saimiri sciureus*). *Felix G. Garcia and Ronald D. Hunt* 50

The Germfree Cat. *M. W. Rohovsky, R. A. Griesemer, and L. G. Wolfe* 52

Successful Prevention of Infantile Diarrhea of Mice during an Epizootic by Means of a New Filter Cage Unopened from Birth to Weaning. *Howard A. Schneider and George R. Collins* 60

Methods and Techniques

A Device to Restrain the Mouse, Rat, Hamster and Chinchilla to Facilitate Semen Collection and Other Reproductive Studies. *Rommon L. Lawson, Sam Barranco, and. A. M. Sorensen* 72

Small Laboratory Animal Feeding Technique. *Samuel G. Kahn* 80

A Rat Resuscitator. *J. R. F. Ingall and P. H. Hasenpusch* 82

No. 2, April

Pseudomonas aeruginosa Infection in Rats Used in Radiobiology Research. *Dan Hightower, Henry T. Uhrig, and John I. Davis* 85

A Method for Determining Expected Parturition Date of Rhesus Monkeys, (*Macaca Mulatta*). *Thomas C. Hutchinson* 93

Effect of Peracetic Acid Used in Gnotobiotics on Experimental Animals. *James B. Heneghan and Davis F. Gates* 96

Oxygen Uptake in Squirrel Monkeys (*Saimiri sciurea*). *M. R. Malinow and Robert Wagner* 105

Establishment of a Caesarean-Derived, Gnotobiote Foster Nursed Inbred Mouse Colony with Observations on the Control of Pseudomonas. *John J. Trentin, G. L. Van Hoosier, Jr., Jacqueline Shields, Kristina Stephens, and Wayne A. Stenback.* 109

Effect of Caesarean-Derivation, Gnotobiote Foster Nursing and Barrier Maintenance of an Inbred Mouse Colony on Enzootic Virus Status. *G. L. Van Hoosier, Jr., J. J. Trentin, Jacqueline Shields, Kristina Stephens, W. A. Stenback, and J. C. Parker.* . 119

Detection of Ectromelia Virus and Ectromelia Antibodies by Immuno Fluorescence. *L. R. Christensen, Steven Weisbroth, and Bartol Matanic* 129

Rana pipiens: Health and Disease. *Erich L. Gibbs, Trudy J. Gibbs, and Peter C. van Dyck* 142

Collection of Biomedical Study Materials from Baboons in East Africa: Preliminary Report. *S. S. Kalter, R. E. Kuntz, Y. Al-Doory, and A. Katzberg* 161

The Feeding of Baboons, Papio Cynocephalus and P. Doguera. *Carl J. Koehn* 178

Methods and Techniques

A Device for Intravenous Injection of Mice and Rats. *Geoffrey Keighley* 185
Restraining Harness for Dogs in Metabolic Studies Involving Radioactive Materials. *Constantine J. Maletskos and Norman C. Telles* 188

No. 3, June

Physiological Experimentation on the Pigeon. *J. E. Desmedt and P. J. Delwaide* 191
Accidental Poisoning of Inbred Male Mice by Carbon Tetrachloride. *Asher Meshorer and Efraim Benhar* 198
The Armadillo, *Daspuys novemcinctus*, in Experimental Biology. *J. M. Anderson and K. Benirschke* 202
Studies on Pinnipeds #1: Obstructive Emphysema in an Elephant Seal (*Mirounga angustirostris*). *A. M. Saunders and R. C. Hubbard* 217
Use of Big Brown Bats (*Eptesicus fuscus*) in Biomedical Research. *Wayne H. Davis and Mark M. Luckens* 224
The Effect of Nutrition on Fertility of Inbred DBA/2 Mice. *Warren G. Hoag, Hans Meier, Margaret Dickie, E. P. Les, and John Dorey* 228
Swine Production for Biomedical Research. *Nicholas H. Booth, Clarence A. Maaske, Stephen G. Hastings, and M. L. Hopwood* 237
A Method of Sterilizing Supplies for Germ-free Isolators in Plastic Bags. *Leroy C. Reid, Jr., and Albert S. Gates, Jr.* 246
Diseases of an Imported Primate, *Tamarinus nigricollis*. *Bill Nelson, G. E. Cosgrove, and N. Gengozian* 255
Psorergatic Mange in the Sooty Mangabey Monkey. *Winslow G. Sheldon* 276
Pulmonary Blastomycosis in a Cat. *Winslow G. Sheldon* 280
Utilization of Energy and Protein of a Commercial Diet by Rhesus Monkeys (*Macaca mulatta*). *R. C. Robbins and J. A. Gavan* 286

Methods and Techniques

A Lead Shielded Cabinet for Use in X-raying Rats. *Ralph E. Pyke and B. J. Stover* 292
A Gag for Gastric Intubation of Rabbits. *G. DiPasquale and W. A. Campbell* 294
Proximity of the Opposite Sex and Spontaneous Activity in the Adult Laboratory Rat. *D. R. Lamb, W. W. Heusner and W. D. Van Huss* 296
A Device for Restraining Rabbits. *Robert M. Appleman* 300

No. 4, August

Editorial 305
Nutritional Management of a Large Experimental Beagle Colony. *H. G. Wolf, R. J. Della Rosa, and A. C. Andersen* 309
Natural Environment: Theoretical and Practical Aspects for Breeding and Rearing Laboratory Animals. *M. W. Fox* 316
The Influence of Female Weight on Productivity in the C57BL/LAC Inbred Mouse Strain. *Marjorie Dinsley* 322
Effects of Diet and Type of Nesting Material on the Reproduction and Lactation of the Rat. *G. A. Nolen and J. C. Alexander* 327
Random Selection of Beagles to Maintain Heterogeneity and Minimize Bias in a Life-span Experiment. *D. H. McKelvie, F. T. Shultz, J. W. Parcher, and L. S. Rosenblatt* 337
A System for Large-Scale Inbred Mouse Production, and a Computer Method to Aid in Subline Selection. *Robert F. Kallman* 345

Intestinal Parasites of Recently Imported Chimpanzees. *Donald C. Van Riper, Phillip W. Day, Jerry Fineg, and James R. Prime* 360
Germfree Cynomolgus Monkeys. *Lauren Wolfe, Richard Griesmer and Michael Rohovsky* 364
Naturally Occurring Primary Cutaneous Tuberculosis in the Rhesus Monkey. *J. Russell Lindsey and Edward C. Melby, Jr.* 369

Methods and Techniques

New Cannulation Device is Applied in Metabolic and Other Biological Studies. *William V. Zeman* 386
A Method of Measuring the Rate of Skeletal Maturatoin of the Rat from Radiographs of the Forepaw. *Ralph E. Pyke* 393
A Device to Facilitate the Restraint and Handling of Monkeys with Minimal Human Contact. *Frank G. Fielder and Charles J. Cosmer* 395

No. 5, October

Editorial: Changing Concepts in Animal Care and Suggestions for the Future. *Samuel M. Poiley* 403
A Technique for Bilateral Adrenalectomy in Guinea Pigs. *Richard M. Hoar* 410
Values for Plasma Constituents in Normal and Tumor Bearing Golden Hamsters. *Paul D. Bannon and Gilbert H. Friedell* 417
Staphylococcal Infection of the Tail of the Laboratory Rat. *Gordon C. Hard* 421
Differentiation of Rat Strains by Heteroimmune Blood Typing Reagents. *Arthur E. Bogden, James H. Gray, and Brenda Gilman* 430
Isoniazid Therapy in the Chimpanzee. *J. Fineg, W. C. Hanly, J. R. Prine, D. C. Van Riper, and P. W. Day* 436
Comparison of Two Cage Rearing Regimes on Reproductive Performance and Body Weight of the Laboratory Mouse. *E. J. Eisen* 447

Methods and Techniques

Transmitter Back-Pack for Free Roaming Animal. *Leonard J. Bodenlos* 454
Restraining Boards for Radiography of Small Primates. *Robert R. Ferron* 459

No. 6, December

Hematologic Alterations in Pregnant Rhesus Monkeys. *J. R. Allen and L. M. Siegfried.* 465
A Re-Evaluation of the Assumed Sterility of Canine Blood. *Irving Lutsky and Silas G. Farmer* 472
Rearing of *Macaca Mulatta* from Birth. *Herbert Kaye, Morris L. Provar, and Allan M. Schrier* 476
Enzootic Pasteurellosis in Domestic Rabbits. II. Strain Types and Methods of Control. *Karl W. Hagen* 487
Protein Requirements of Growing Hamsters. *L. R. Arrington, J. K. Platt, and R. L. Shirley* 492
The Viral Flora of the Alimentary Tract of Chimpanzees. *Phillip W. Day, Kenneth Soike, R. H. Levenson, and Donald Van Riper* 497
Error of Intraperitoneal Injections in Rats. *R. E. Lewis, A. L. Kunz, and R. E. Bell.* 505
Extended B Virus Antibody Determinations in a Closed Monkey Colony. *E. J. Gralla, S. J. Ciecura, and C. S. Delahunt* 510

Methods and Techniques

A Simple Closed-Circuit Apparatus for Cyclopropane and Halothane Anesthesia of the Rabbit. *S. C. Watson and A. T. Cowie* 515
An Adjustable Restraining Cage for Rats. *Jeremy H. Thompson* 520
A Simple Method for Obtaining Blood from Hamsters in Terminal Experiments. *John P. Manning and Thomas Giannina* 523